

lying against the first lap, and, using a sealing tool which acts upon both laps, in order to produce a weld along predetermined lines, bringing the laps into contact with pressure and with a temperature of above the melting point of the polymer, for a sealing period, which process comprises:

increasing, while the cycle remains the same, the sealing period by a factor, and the temperature of the heated sealing heads of the sealing tool being lowered in response to said increase of the sealing period, to reduce the temperature reached within the pack material to a temperature only slightly above the melting point of the polymer layer.

2. (Amended) Process according to Claim 1, further comprising reducing the sealing pressure.

3. (Amended) Process according to Claim 1, further comprising:

advancing, after the predetermined lines on the pack material have first been brought into contact with pressure and with heat, the pack material in the cycle and

bringing said lines on the pack material into contact on a second occasion with pressure and with heat, using the same sealing period.

4. (Amended) Device for performing the process according to Claim 1, comprising a sealing unit with heated sealing tools and a transport device for the pack material, wherein the sealing unit comprises a first and a second cooperating, heated sealing head the second sealing head being arranged or configured on the side of the pack material facing away from the first sealing head, and said sealing heads having, in succession in the direction of advance, two or more identical contact area structures corresponding to the predetermined weld lines for transmitting temperature and pressure to the pack material, with the length of one contact area structure in the direction of advance corresponding to the advancement cycle.

5. (New) Process according to Claim 1, wherein said factor is two.